

The Western Journal of Medicine

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SUBMITTING MANUSCRIPTS

Manuscripts for consideration should be sent to the editor, Malcolm S. M. Watts, MD, PO Box 7602, San Francisco, CA 94120-7602.

"Information for Authors"—A complete guide to manuscript submission and *WJM* style appears in the January and July issues. Manuscripts may be prepared in accordance with the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals" (*Annals of Internal Medicine*, Feb 1988; *The Medical Journal of Australia*, Feb 1988).

Author Responsibility—Authors are responsible for all statements, conclusions and methods of presenting subjects. Articles are accepted on condition that they are contributed solely to this journal.

PUBLISHER

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Manuscripts—Ordinarily manuscripts should not exceed 3,000 words (less than 15 typed double-spaced pages). The *original* manuscript and two copies should be submitted, typed double-spaced throughout. If photographic illustrations are desired, three sets of clear, unmounted black and white glossy prints should be supplied. For line drawings, original artwork or glossy prints are acceptable. Tables should be typed on separate sheets of paper.

Clinical Investigation—Papers that authors wish considered for the Clinical Investigation section should be so designated in the transmittal letter. Such papers should describe experimental work in humans that extensively and prospectively examines scientific hypotheses relating to disease.

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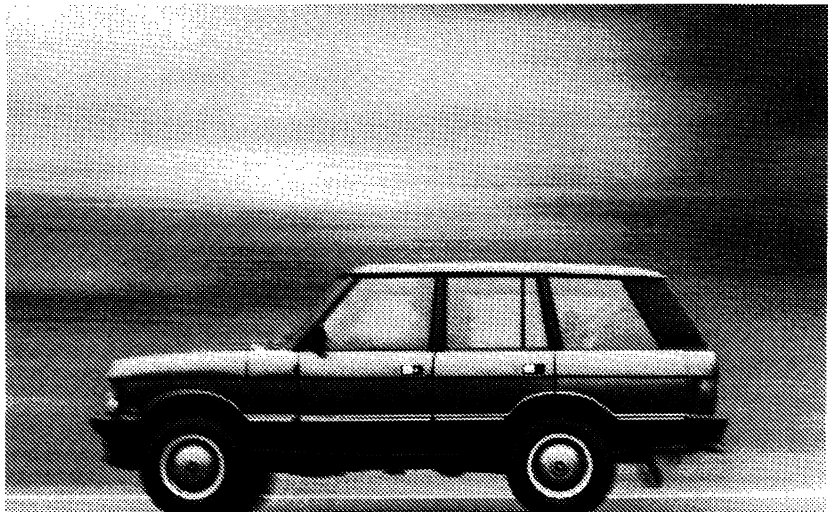
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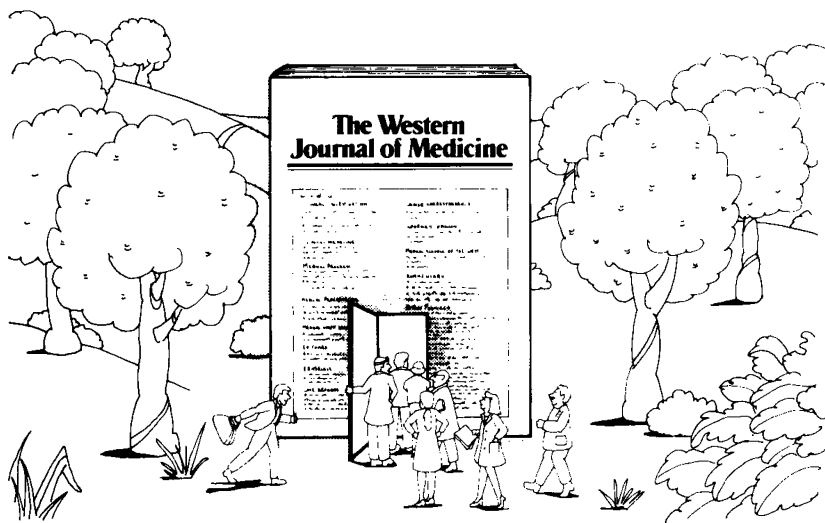
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- **Clinical Investigation**—Five major clinical research societies coordinate important new research findings, emphasizing clinical value.
- **Socioeconomics**—WJM is often the first to predict, examine and evaluate socioeconomic changes, trends.
- **Yearly Special Issue**—Each December's issue is devoted to a topic vital to physicians: clinical nutrition (1979), cost of care (1980), geriatrics (1981), occupational/environmental medicine (1982), cross-cultural medicine (1983), personal health maintenance (1984), high-tech medicine (1985), medical informatics (1986), AIDS—a global perspective (1987).

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BRIEF SUMMARY

CONTRAINDICATIONS

There are no known contraindications to the use of sucralfate.

PRECAUTIONS

Duodenal ulcer is a chronic, recurrent disease. While short-term treatment with sucralfate can result in complete healing of the ulcer, a successful course of treatment with sucralfate should not be expected to alter the post-healing frequency or severity of duodenal ulceration.

Drug Interactions: Animal studies have shown that simultaneous administration of CARAFATE (sucralfate) with tetracycline, phenytoin, digoxin, or cimetidine will result in a statistically significant reduction in the bioavailability of these agents. The bioavailability of these agents may be restored simply by separating the administration of these agents from that of CARAFATE by two hours. This interaction appears to be nonsystemic in origin, presumably resulting from these agents being bound by CARAFATE in the gastrointestinal tract. The clinical significance of these animal studies is yet to be defined. However, because of the potential of CARAFATE to alter the absorption of some drugs from the gastrointestinal tract, the separate administration of CARAFATE from that of other agents should be considered when alterations in bioavailability are felt to be critical for concomitantly administered drugs.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Chronic oral toxicity studies of 24 months' duration were conducted in mice and rats at doses up to 1 gm/kg (12 times the human dose). There was no evidence of drug-related tumorigenicity. A reproduction study in rats at doses up to 38 times the human dose did not reveal any indication of fertility impairment. Mutagenicity studies were not conducted.

Pregnancy: Teratogenic effects. Pregnancy Category B. Teratogenicity studies have been performed in mice, rats, and rabbits at doses up to 50 times the human dose and have revealed no evidence of harm to the fetus due to sucralfate. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when sucralfate is administered to a nursing woman.

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS

Adverse reactions to sucralfate in clinical trials were minor and only rarely led to discontinuation of the drug. In studies involving over 2,500 patients treated with sucralfate, adverse effects were reported in 121 (4.7%).

Constipation was the most frequent complaint (2.2%). Other adverse effects, reported in no more than one of every 350 patients, were diarrhea, nausea, gastric discomfort, indigestion, dry mouth, rash, pruritus, back pain, dizziness, sleepiness, and vertigo.

OVERDOSAGE

There is no experience in humans with overdosage. Acute oral toxicity studies in animals, however, using doses up to 12 gm/kg body weight, could not find a lethal dose. Risks associated with overdosage should, therefore, be minimal.

DOSAGE AND ADMINISTRATION

The recommended adult oral dosage for duodenal ulcer is 1 gm four times a day on an empty stomach.

Antacids may be prescribed as needed for relief of pain but should not be taken within one-half hour before or after sucralfate.

While healing with sucralfate may occur during the first week or two, treatment should be continued for 4 to 8 weeks unless healing has been demonstrated by x-ray or endoscopic examination.

HOW SUPPLIED

CARAFATE (sucralfate) 1-gm tablets are supplied in bottles of 100 (NDC 0088-1712-47) and in Unit Dose Identification Packs of 100 (NDC 0088-1712-49). Light pink scored oblong tablets are embossed with CARAFATE on one side and 1712 bracketed by C's on the other. Issued 1/87

Reference:

1. Eliakim R, Ophir M, Rachmilewitz D: *J Clin Gastroenterol* 1987; 9(4):395-399.



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Continuing Medical Education

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ARIZONA

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Brochures and registration forms are available from the contact person or organization sponsoring the program.

June 1—1989 Arizona Medical Association Annual Meeting—Current Perspectives. The Pointe at South Mountain. Thurs. Contact: ArMA.

CONTACT INFORMATION

ArMA—Contact: Arizona Medical Association, 810 W. Bethany Home Rd, Phoenix, AZ 85013. (602) 246-8901.

U of A—Contact: University of Arizona College of Medicine, Arizona Health Sciences Center, Tucson, AZ 85724. (602) 626-6707.

CALIFORNIA, HAWAII, AND NEVADA

This listing of continuing education programs in California, Hawaii, and Nevada is supplied by the Committee on Continuing Medical Education of the California Medical Association. All courses and meetings listed have been approved for Category I credit toward the CMA Certificate in Continuing Medical Education. To have accredited courses listed here, please send information at least two months in advance to Department of Continuing Medical Education, California Medical Association, PO Box 7690, San Francisco 94120-7690; or phone (415) 541-0900. For a list of organizations approved for Category I credit toward the CMA Certificate in Continuing Medical Education or for more information on accreditation or certification, please write to the above address.

ALLERGY

July 21-22—American In-Vitro Allergy/Immunology Society Annual Program. American In-Vitro Allergy/Immunology Society at San Diego Marriott Hotel and Marina. Fri-Sat. 12 hrs. \$200. Contact: Betty Kahler, PO Box 459, Lake Jackson, TX 77566. (409) 297-5636.

September 21-22—Modern Approaches to Allergy and Clinical Immunology. UCSF at Hyatt Union Square, San Francisco. Thurs-Fri. 15 hrs. \$300. Contact: UCSF.

ANESTHESIOLOGY

June 15-18—California Society of Anesthesiologists: 1989 Annual Meeting. California Society of Anesthesiologists at Monterey Conference Center. Thurs-Sun. 20 hrs. \$150. Contact: CSA, 1065 E Hillsdale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

August 13-18—Hawaiian Seminar on Clinical Anesthesia. California Society of Anesthesiologists at Sheraton Kauai Hotel, Poipu Beach, Hawaii. Sun-Fri. 20 hrs. \$325. Contact: CSA, 1065 E Hillsdale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

October 22-28—Hawaiian Seminar on Clinical Anesthesia. California Society of Anesthesiologists at Stouffer's Resort Hotel, Wailea, Maui, Hawaii. Sun-Sat. 20 hrs. \$325. Contact: CSA, 1065 E Hillsdale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

CARDIOLOGY

June 16-17—Coronary Heart Disease. Medical Education Resources at Hyatt Lake Tahoe. Fri-Sat. Contact: Deborah Wilderson, Educational Coordinator, Division of CME, 5808 S Rapp St, Ste 202, Littleton, CO 80120. (800) 421-3756.

June 23-24—Advanced Cardiac Life Support. UCI at Center for Health Education, Long Beach. Fri-Sat. Contact: UCI.

June 24—Cardiology, Holter Monitoring, and Stress Testing Workshop. Continuing Medical Education Associates at Holiday Inn Union Square, San Francisco. Sat. 7 hrs. \$195. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

July 7-8—Case Studies in ECG Interpretation and Arrhythmia Management. Medical Education Collaborative at San Diego. Fri-Sat. 12 hrs. \$295. Contact: MEC, 133 S Van Gordon St, Ste 315, Lakewood, CO 80228. (800) 442-6632.

KEY TO ABBREVIATIONS

- CMA: California Medical Association
Contact: Continuing Medical Education, California Medical Association, PO Box 7690, San Francisco 94120-7690. (415) 541-0900.
- DREW: Charles R. Drew Postgraduate Medical School
Contact: Herbert M. Thomas, MD, MPH, Director of CME, Office of Continuing Education, Charles R. Drew Postgraduate Medical School, 1621 East 120th Street, Los Angeles 90059. (213) 603-3183.
- LLU: Loma Linda University
Contact: James J. Couperus, MD, Associate Dean for Educational Affairs, Loma Linda University School of Medicine, Loma Linda 92350.
- PMC: Pacific Medical Center
Contact: Continuing Education, Pacific Medical Center, PO Box 7999, San Francisco 94120. (415) 563-4321, ext 2761.
- STAN: Stanford University
Contact: Edward Rubenstein, MD, Associate Dean for Postgraduate Education, Medical School Office Building, Suite X-365, Stanford 94305-6114. (415) 723-5594.
- UCD: University of California, Davis
Contact: Ruth Feryok, Director, Office of Continuing Medical Education, University of California, Davis, School of Medicine, 2701 Stockton Boulevard, Sacramento 95817. (916) 453-5390.
- UCI: University of California, Irvine
Contact: Melvin I. Marks, MD, Assistant Dean, University of California, Irvine, California College of Medicine, c/o UCI/CME Program, Memorial Medical Center, 2801 Atlantic Avenue, Long Beach 90801-1428. (213) 595-3811, or (714) 856-5414, UCI Extension.
- UCLA: University of California, Los Angeles
Contact: Martin D. Shickman, MD, Director, Continuing Education in Medicine and the Health Sciences, PO Box 24902, UCLA, Los Angeles 90024. (213) 825-7186.
- UCSD: University of California, San Diego
Contact: Office of Continuing Medical Education, University of California, San Diego, School of Medicine (M-017), La Jolla 92093. (619) 534-3713.
- UCSF: University of California, San Francisco
Contact: Robert Maggio, Administrative Director, Extended Programs in Medical Education, School of Medicine, University of California, San Francisco 94143. (415) 476-4251.
- USC: University of Southern California
Contact: Phil R. Manning, MD, Associate Dean, Postgraduate Division, University of Southern California School of Medicine, 1975 Zonal Ave, KAM314, Los Angeles 90033. (213) 224-7051.

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Women and Medicine

This special issue explores both the professional side of women in medicine and the diagnosis and treatment of women patients.

Some of the topics covered include liver disease in women, women and AIDS, women and heart disease, hysterectomy, PMS, ovarian cancer, women physicians and organized medicine, and career choices of women physicians.

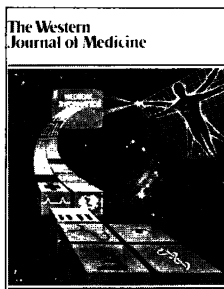
The special issue editor for *Women and Medicine* is Linda Hawes Clever, MD—Doctor Clever is chair of the Department of Occupational Health at Pacific Presbyterian Medical Center in San Francisco.

AIDS— A Global Perspective



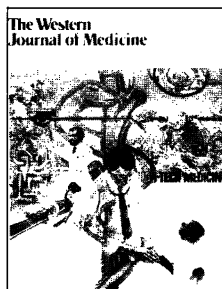
This issue, from the World Health Organization, considers the methods and limitations of AIDS case reporting and HIV serologic studies, summarizes modes of transmission, defines geographic patterns of spread, and examines the epidemiology of HIV infections by continent. Jonathan M. Mann, MD, Special Issue Editor, 1987.

Medical Informatics



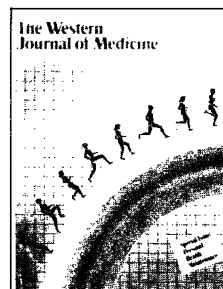
Medical Informatics explores the capabilities and potential capabilities of new electronic methods of collecting, processing, storing, analyzing, and using information to advance medical science and improve patient care. Marsden S. Blois, MD, Special Issue Editor, 1986.

High-Tech Medicine



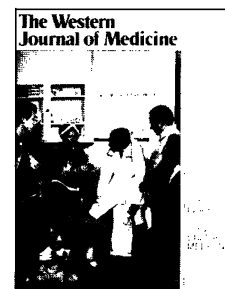
This issue examines high-tech medicine as it pertains to patient care. Subjects include lasers in ophthalmology, cutaneous laser therapy, magnetic resonance imaging, organ transplantation, positron emission tomography, and modern molecular biology. R. Paul Robertson, MD, Special Issue Editor, 1985.

Personal Health Maintenance



Personal Health Maintenance provides an authoritative guide to disease prevention and health promotion. The contributors are distinguished experts in public health, epidemiology, and clinical medicine. John H. Holbrook, MD, Special Issue Editor, 1984.

Cross-cultural Medicine



Cross-Cultural Medicine is devoted to the care of patients of different cultural, ethnic, or religious backgrounds. Subjects include Southeast Asian refugees in the American health care system, psychiatry and Chinese culture, health and illness in Filipino immigrants, and health care of Middle Eastern patients. M. Margaret Clark, PhD, Special Issue Editor, 1983.

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CONTINUING MEDICAL EDUCATION

(Continued from Page 520)

July 15—**Cardiology, Holter Monitoring, and Stress Testing Workshop.** Continuing Medical Education Associates at Grand Hotel, Anaheim. Sat. 7 hrs. \$195. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

July 21-22—**Arrhythmias: Interpretation, Diagnosis and Management.** Medical Education Resources at Disneyland Hotel, Anaheim. Fri-Sat. Contact: Deborah Wilderson, 5808 S Rapp St, Ste 202, Littleton, CO 80120. (800) 421-3756.

DERMATOLOGY

June 2-3—**Southwestern Regional Cutaneous Flap Workshop.** UCLA Center for Health Sciences. Fri-Sat. 15 hrs. Contact: Daniel E. Gormley, MD, 412 W Carroll, Ste 207, Glendora 91740. (818) 963-7684.

June 25—**Dermatology and Dermatologic Office Procedures Workshop.** Continuing Medical Education Associates at Holiday Inn Union Square, San Francisco. Sun. 7 hrs. \$195. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

July 16—**Dermatology and Dermatologic Office Procedures Workshop.** Continuing Medical Education Associates at Grand Hotel, Anaheim. Sun. 7 hrs. \$195. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

August 4-5—**Southwestern Regional Cryostat and Microscopically Controlled Surgical Workshop.** UCSD. Fri-Sat. 15 hrs. Contact: Daniel E. Gormley, MD, 412 W Carroll, Ste 207, Glendora 91740. (818) 963-7684.

EMERGENCY MEDICINE

June 23-24—**Advanced Cardiac Life Support.** Center for Health Education at Long Beach. Fri-Sat. Contact: Center for Health Education, 2801 Atlantic Ave, PO Box 1428, Long Beach 90801-1428. (213) 595-3811.

June 24-25—**11th Annual Poison Center Symposium: Emergency Medicine and Toxicology.** UCSF at Cathedral Hill Hotel, San Francisco. Sat-Sun. 16 hrs. \$280. Contact: UCSF.

August 21-25—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposia I, II, III and Optional Advanced Emergency Procedures Laboratory.** UCSD. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

INTERNAL MEDICINE

May-June—**Seminars in Cytopathology 1989.** UCSF at Health Sciences Room 300. Thurs/monthly. 12 hrs. \$140 full series/\$30 single. Contact: UCSF.

May 21—**The California Tumor Tissue Registry's Semi-Annual Slide Seminar on Skin and Skin Appendage Tumors.** Sat. Contact: CTTR, 1200 N State St, Box 40, Los Angeles 90033. (213) 226-4614.

June 12-16—**Advances in Internal Medicine.** UCSF at Hyatt Regency Hotel, San Francisco. Mon-Fri. 32 hrs. \$440. Contact: UCSF.

June 14-16—**Gastroenterology: Recent Developments in Theory and Practice.** UCSF at Hyatt Union Square. Wed-Fri. 17 hrs. \$375. Contact: UCSF.

June 26-30—**Advances in Internal Medicine.** UCSF at Hyatt Regency Hotel, San Francisco. Mon-Fri. 32 hrs. \$440. Contact: UCSF.

June 30-July 2—**California Society of Internal Medicine: 44th Annual Meeting.** California Society of Internal Medicine at Maui Marriott Hotel, Kaanapali Beach. Fri-Sun. 4 hrs. \$125. Contact: Cynthia Eaton, PO Box 880606, San Francisco 94188-0606. (415) 882-5198.

September 4-5—**International Conference on Thyroid Metabolism.** UCI at Queen Mary Hotel, Long Beach. Mon-Tues. Contact: UCI.

(Continued on Page 526)

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CONTINUING MEDICAL EDUCATION

(Continued from Page 525)

October 16-18—**International Symposium on Medical Virology.** UCI at Ramada Renaissance Hotel, San Francisco. Mon-Wed. Contact: Luis M. de la Maza, MD, 101 City Dr South, Orange 92668. (714) 634-6868.

October 21—**Fine Needle Aspiration Tutorial.** UCSF at San Francisco. Sat. \$550. Contact: UCSF.

October 21—**Inflammatory Bowel Disease—New Advances.** National Foundation for Iliitis & Colitis at Sheraton Grand Hotel, San Diego. Sat. 7 hrs. \$130. Contact: Nomi Feldman, 3770 Tansy, San Diego 92121. (619) 453-6222.

October 23-27—**Postgraduate Institute for Emergency and Primary Care Physicians Symposium I: Cardiology, Pulmonary, Neurology.** UCSD. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

October 30-November 1—**13th Annual Cancer Symposium.** Scripps Memorial Hospital at Sheraton Harbor Island Hotel, San Diego. Mon-Wed. \$390. Contact: Nomi Feldman, 3770 Tansy, San Diego 92121. (629) 453-6222.

November 10-11—**Gastro-Intestinal Cancer.** Saint Joseph Medical Center at Century Plaza Hotel, Los Angeles. Fri-Sat. 12 hrs. \$350. Contact: Nomi Feldman, 3770 Tansy, San Diego 92121. (619) 453-6222.

OB/GYN

June 2-3—**Perinatology: Fact and Friction.** Fri-Sat. 11 hrs. Contact: Marianne Gray, (213) 380-1790.

June 22-24—**Basic and Advanced Colposcopy.** American College of Obstetricians and Gynecologists at San Francisco. Thurs-Sat. 16 hrs. \$600. Contact: ACOG Registrar, 409 12th St, SW, Washington, DC 20024-2180. (202) 863-2541.

June 30-July 4—**7th Annual Controversies in OB/GYN.** UCI at Mauna Kea, Hawaii. Fri-Tues. Contact: UCI.

July 29-August 8—**Update in Urogynecology.** UCI at Hawaii. 1 week/2 days. Contact: UCI.

October 12-13—**Prenatal Genetics Diagnosis and Fetal Therapy.** UCI at Newport Marriott Hotel, Newport Beach. Thurs-Fri. Contact: UCI.

November 9-11—**AIDS and Other Sexually Transmitted Diseases.** American College of Obstetricians and Gynecologists at Universal City. Thurs-Sat. 16 hrs. \$515. Contact: ACOG Registrar, 409 12th St, SW, Washington, DC 20024-2180. (202) 863-2541.

November 9-12—**Current Issues in Perinatal Medicine.** UCI at Marriott's Rancho Las Palmas Resort, Palm Springs. Thurs-Sun. Contact: UCI.

November 12-18—**12th Annual Review Course in Clinical Obstetrics and Gynecology and/or Gynecological Histopathology.** UCI at Westin South Coast Plaza Hotel, Costa Mesa. Sun-Sat. Contact: UCI.

OPHTHALMOLOGY

August 25-27—**Regional Update Course in Ophthalmology: Section 1 of 3.** American Academy of Ophthalmology at Los Angeles. Fri-Sun. Contact: Gary Holland, MD, Jules Stein Institute. (213) 825-9508.

September 15-16—**Uveitis Frontiers: Diagnostic, Medical and Surgical Approaches to Uveitis.** UCSF at Quail Lodge, Carmel Valley. Fri-Sat. Contact: UCSF.

PEDIATRICS

June 10—**Atherosclerosis; Pathogenesis and Screening.** Los Angeles Pediatric Society at Kaiser Permanente, Panorama City. Sat. Contact: Eve Black, Los Angeles Pediatric Society, PO Box 2022, Inglewood 90305. (213) 757-1198.

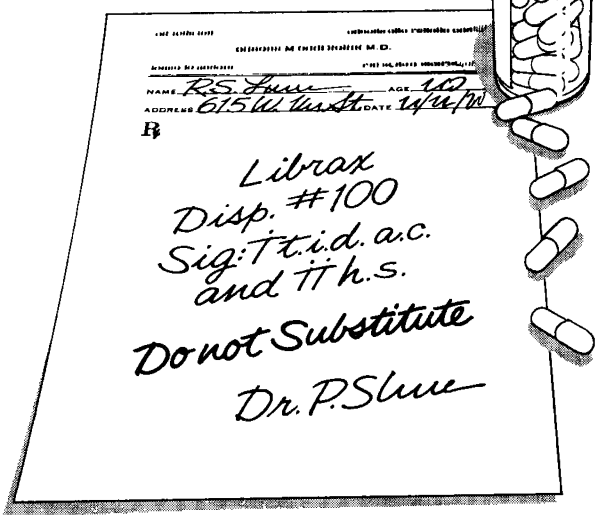
June 10—**Hypertension in Children.** Los Angeles Pediatric Society at Kaiser Permanente, Panorama City. Sat. Contact: Eve Black, Los Angeles Pediatric Society, PO Box 2022, Inglewood 90305. (213) 757-1198.

June 10—**Office Evaluation of Sports Injuries.** Los Angeles Pediatric Society at Kaiser Permanente, Panorama City. Sat. Contact: Eve Black, Los Angeles Pediatric Society, PO Box 2022, Inglewood 90305. (213) 757-1198.

June 10—**Fitness Training in Children.** Los Angeles Pediatric Society at Kaiser Permanente, Panorama City. Sat. Contact: Eve Black, Los Angeles Pediatric Society, PO Box 2022, Inglewood 90305. (213) 757-1198.

(Continued on Page 531)

Specify Adjunctive

LIBRAX®

Each capsule contains 5 mg chlordiazepoxide HCl and 2.5 mg clidinium bromide.

Please consult complete prescribing information, a summary of which follows:

- * **Indications:** Based on a review of this drug by the National Academy of Sciences—National Research Council and/or other information, FDA has classified the indications as follows:
 "Possibly" effective: as adjunctive therapy in the treatment of peptic ulcer and in the treatment of the irritable bowel syndrome (irritable colon, spastic colon, mucous colitis) and acute enterocolitis.
 Final classification of the less-than-effective indications requires further investigation.

Contraindications: Glaucoma; prostatic hypertrophy, benign bladder neck obstruction; hypersensitivity to chlordiazepoxide HCl and/or clidinium Br.
Warnings: Caution patients about possible combined effects with alcohol and other CNS depressants, and against hazardous occupations requiring complete mental alertness (e.g., operating machinery, driving).

Usage in Pregnancy: Use of minor tranquilizers during first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy. Advise patients to discuss therapy if they intend to or do become pregnant.

As with all anticholinergics, inhibition of lactation may occur.

Withdrawal symptoms of the barbiturate type have occurred after discontinuation of benzodiazepines (see Drug Abuse and Dependence).

Precautions: In elderly and debilitated, limit dosage to smallest effective amount to preclude ataxia, oversedation, confusion (no more than 2 capsules/day initially; increase gradually as needed and tolerated). Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider pharmacology of agents, particularly potentiating drugs such as MAO inhibitors, phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions reported in psychiatric patients. Employ usual precautions in treating anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship not established. Inform patients to consult physician before increasing dose or abruptly discontinuing this drug.

Adverse Reactions: No side effects or manifestations not seen with either compound alone reported with Librax. When chlordiazepoxide HCl is used alone, drowsiness, ataxia, confusion may occur, especially in elderly and debilitated; avoidable in most cases by proper dosage adjustment, but also occasionally observed at lower dosage ranges. Syncope reported in a few instances. Also encountered: isolated instances of skin eruptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent, generally controlled with dosage reduction; changes in EEG patterns may appear during and after treatment; blood dyscrasias (including agranulocytosis), jaundice, hepatic dysfunction reported occasionally with chlordiazepoxide HCl, making periodic blood counts and liver function tests advisable during protracted therapy. Adverse effects reported with Librax typical of anticholinergic agents, i.e., dryness of mouth, blurring of vision, urinary hesitancy, constipation. Constipation has occurred most often when Librax therapy is combined with other spasmolytics and/or low residue diets.

Drug Abuse and Dependence: Withdrawal symptoms similar to those noted with barbiturates and alcohol have occurred following abrupt discontinuance of chlordiazepoxide; more severe seen after excessive doses over extended periods; milder after taking continuously at therapeutic levels for several months. After extended therapy, avoid abrupt discontinuation and taper dosage. Carefully supervise addiction-prone individuals because of predisposition to habituation and dependence.

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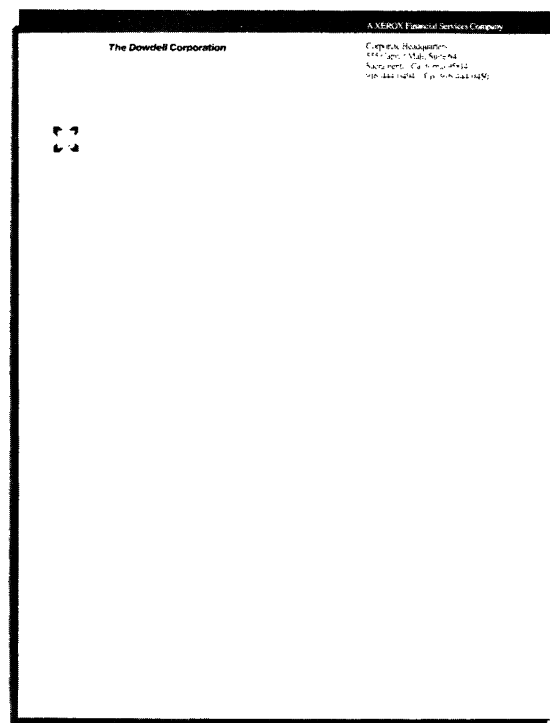
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CONTINUING MEDICAL EDUCATION

(Continued from Page 526)

June 16-17—**Current Concepts in Pediatric Respiratory Disease.** Children's Hospital and Health Center at U.S. Grant Hotel, San Diego. Fri-Sat. Contact: Children's Hospital, 8001 Frost St, San Diego 92123. (619) 576-4072.

July 21-22—**Pediatric Advanced Life Support.** UCI at Center for Health Education, Long Beach. Fri-Sat. Contact: UCI.

June 23-24—**Breastfeeding for Health Professionals.** UCSF at Hyatt Oakland International Airport. Fri-Sat. 10 hrs. \$75. Contact: UCSF.

July 10-12—**Seminar for Physicians: Breastfeeding: A Natural World Resource.** La Leche League International at Anaheim Hilton and Towers. Mon-Wed. 16 hrs. Contact: LLLI, 9616 Minneapolis Ave, Franklin Park, IL 60131. (312) 455-7730.

July 18—**22nd Annual Advances and Controversies in Clinical Pediatrics.** UCSF at Mark Hopkins Hotel Nob Hill, San Francisco. Thurs-Sat. 16 hrs. \$275. Contact: UCSF.

August 11-13—**2nd Annual Postgraduate Course.** UCI at Four Seasons Hotel, Newport Beach. Fri-Sun. Contact: UCI.

October 13-14—**Pediatric Advanced Life Support.** UCI at Center for Health Education, Long Beach. Fri-Sat. Contact: UCI.

October 14-21—**14th Annual Pediatrics for the Practitioner.** UCI at Mauna Kea, Hawaii. 1 week. Contact: UCI.

November 13-17—**Postgraduate Institute for Emergency and Primary Care Physicians Symposium III: Pediatrics.** Mon-Fri. 32 hrs. \$450. Contact: UCSD.

PSYCHIATRY

October 13-15—**California Psychiatric Association Annual Meeting** at Del Coronado Hotel, San Diego. Fri-Sun. Contact: Barbara Gard, 221 Main St, Ste 352, San Francisco 94105-9832. (415) 882-5196.

RADIOLOGY

July 27-30—**3rd Annual Symposium on Magnetic Resonance Imaging.** Ritz-Carlton Resort Hotel, Laguna Niguel. Thurs-Sun. 23 hrs. \$395. Contact: Dawne Ryals, PO Box 1925, Roswell, GA 30077-1925. (404) 641-9773.

July 30-August 3—**Napa Valley Imaging Update: MRI 1989.** UCD at Silverado Country Club, Napa Valley. Sun-Thurs. 17 hrs. \$435. Contact: Nina Musselman, (916) 453-5390.

July 31-August 4—**Modern Radiology Practice.** UCSD at Four Seasons Biltmore Hotel, Santa Barbara. Mon-Fri. 24 hrs. \$395. Contact: Dawne Ryals, PO Box 1925, Roswell, GA 30077-1925. (404) 641-9773.

August 24-27—**Physics and Biology of Radiology.** UCSD at Town & Country Hotel, San Diego. Thurs-Sun. 25 hrs. \$395. Contact: Dawne Ryals, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

September 7-10—**5th Annual Sonography Update for Physicians and Sonographers.** UCSD at San Diego Marriott Hotel and Marina. Thurs-Sun. 18 hrs. \$275. Contact: Dawne Ryals, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

October 12-14—**Update in Pediatric Imaging for the Practicing Radiologist.** Children's Hospital Medical Center Cincinnati at Ritz-Carlton Hotel, Laguna Niguel. Thurs-Sat. 18 hrs. \$395. Contact: Dawne Ryals, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

October 28-29—**Advanced Imaging of the Musculoskeletal System.** UCSD at Le Meridien San Diego Hotel at Coronado. Sat-Sun. 12 hrs. \$200. Contact: Dawne Ryals, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

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CONTINUING MEDICAL EDUCATION

(Continued from Page 531)

SURGERY

May-October—**Temporal Bone Surgical Dissection Courses: 1989.** House Ear Institute, 5 days per month. 53 hrs. \$975. Contact: Antonio De la Cruz, MD, Director of Education, House Ear Institute, 256 S Lake St, Los Angeles 90057. (213) 483-4431.

May 20—**6th Annual San Diego Meeting on Arthroscopic Surgery of the Shoulder.** Tri-City Orthopaedic Surgery Medical Group at La Jolla Marriott Hotel. Mon. Contact: James C. Esch, MD, 3905 Waring Rd, Oceanside 92056. (619) 598-0080.

August 5-12—**Fine Needle Biopsy Course.** UCSF at Westin Hotel, Kauai, Hawaii. 1 week. 25 hrs. \$895. Contact: UCSF.

August 21-25—**Postgraduate Institute for Emergency and Primary Care Physicians Symposium II: Trauma and Surgery.** UCSD. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

OF INTEREST TO ALL PHYSICIANS

May 19-20—**Medical Consequences of Alcohol and Other Drugs.** UCSD. Thurs-Fri. 9 hrs. \$105. Contact: UCSD.

May 23-26—**A Comprehensive Review for the Primary Care Provider: 16th Annual Family Practice Refresher Course.** UCD at Embassy Suites, Napa. Tues-Fri. 21 hrs. \$365. Contact: UCD.

May 25-26—**5th Annual Current Issues in Anatomic Pathology.** UCSF at Holiday Inn Union Square, San Francisco. Thurs-Fri. 12 hrs. \$300. Contact: UCSF.

May 30-June 3—**Family Practice Refresher Course and Board Examination Review.** UCLA at Miramar-Sheraton Hotel, Santa Monica. Tues-Sat. 32 hrs. \$395. Contact: UCLA.

June 1-2—**8th Annual Occupational and Environmental Medicine Symposium with Postgraduate Mini-Courses.** UCD at Capitol Plaza Holiday Inn, Sacramento. Thurs-Fri. 17 hrs. \$130. Contact: UCD.

June 4-9—**The Power of the Art: Humanism, Healing and Health Care.** Kauai Foundation for Continuing Education and The Hawaii Medical Association at Poipu Beach, Kauai. Sun-Fri. 25 hrs. \$395. Contact: David J. Elperin, MD, 3420-B, Kuhio Highway, Lihue, HI 97666. (808) 245-5653.

June 11-16—**Family Practice Refresher Course.** UCI at Newport Beach Sheraton. Sun-Fri. 30 hrs. Contact: UCI.

June 19-23—**Postgraduate Institute for Emergency and Primary Care Physicians Symposium III: Pediatrics, OB/GYN, ENT, Dermatology, Legal Aspects, Psychiatry, Ophthalmology, Toxicology, Oral Surgery, Pharmacology.** Mon-Fri. 32 hrs. \$450. Contact: UCSD.

June 23—**Colon Cancer Screening and Flexible Sigmoidoscopy Workshop.** Continuing Medical Education Associates at Holiday Inn Union Square, San Francisco. Fri. 7 hrs. \$195. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

June 28—**AIDS Update: Essential Issues in Primary Care Management.** Alta Bates-Herrick Hospital at Alta Bates Auditorium, Berkeley. Wed. 7 hrs. \$75. Contact: Mary Grim, (415) 540-1420.

June 30-July 1—**Euthanasia: An Old/New Dilemma for Physicians.** UCSF at San Francisco. Fri-Sat. Contact: UCSF.

July 9-12—**3rd Annual Family Practice Board Review.** UCSD at Hanalei Hotel, San Diego. Sun-Wed. 20 hrs. \$355. Contact: Janice R. Turner, PO Box 2528, La Jolla 92038. (619) 459-9597.

July 10-13—**Family Practice Board Review Course.** UCSF at Holiday Inn Union Square, San Francisco. Mon-Thurs. 25 hrs. Contact: Division of Family and Community Medicine, 400 Parnassus Ave, A-C9, San Francisco 94143-0900. (415) 476-1482.

July 14—**Colon Cancer Screening and Flexible Sigmoidoscopy Workshop.** Continuing Medical Education Associates at Grand Hotel, Anaheim. Fri. 7 hrs. \$195. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

July 31-August 3—**Practical Orthopaedic Sports Medicine.** Children's Hospital Oakland at Hyatt Regency, Waikoloa, Kona Coast, Hawaii. Mon-Thurs. 20 hrs. \$350. Contact: Stuart Zeman, MD, 2999 Regent St, No 203, Berkeley 94705. (415) 540-8686.

August 2-6—**Wilderness Medicine: '89.** American College of Emergency Physicians California Chapter at Squaw Valley, Lake Tahoe. Wed.-Sun. 23 hrs. \$395. Contact: Eugene Allred, MD, PO Box 321, Yreka 96097. (916) 842-4667.

August 11-12—**Office Practice Enhancement: Non-invasive Diagnostic Testing.** Medical Education Collaborative at Lake Tahoe, Nevada. Fri-Sat. Contact: MEC, 133 S Van Gordon St, Ste 315, Lakewood, CO 80228. (800) 442-6632.

September 8-9—**Update in Clinical Cardiology for the Primary Care Physician.** Medical Education Collaborative at Napa. Fri-Sat. Contact: MEC, 133 S Van Gordon St, Ste 315, Lakewood, CO 80228. (800) 442-6632.

September 13-15—**Primary Care Medicine: Principles and Practice.** UCSF at The Portman, San Francisco. Wed-Fri. 20 hrs. \$385. Contact: UCSF.

October 14—**29th Annual Scientific Symposium on Kidney Disease.** National Kidney Foundation of Southern California at La Jolla Marriott Hotel. Sat. Contact: Sylvie Tarro, (213) 641-8152.

October 19-21—**Recent Advances in Pulmonary and Critical Care Medicine.** UCSF at Ramada Renaissance Hotel, San Francisco. Thurs-Sat. \$365. Contact: UCSF.

October 19-21—**Occupational Low Back Pain Conference.** UCI at Queen Mary Hotel, Long Beach. Thurs-Sat. Contact: UCI.

October 30-November 3—**Current Topics in Occupational Medicine.** UCSF at Cathedral Hill Hotel, San Francisco. Mon-Fri. 40 hrs. \$550. Contact: UCSF.

October 31-November 3—**Therapeutic Hotline.** Stanford University Medical Center at Molokai, Hawaii. Tues-Fri. Contact: Paul H. Jacobs, MD, Dept of Dermatology, Room R-144, Stanford 94305. (415) 723-7854.

November 9-11—**Addiction Medicine: State of the Art.** California Society for the Treatment of Alcoholism and Other Drug Dependencies at San Diego. Thurs-Sat. Contact: California Society, 3803 Broadway, Oakland 94611. (415) 428-9091.

IDAHO

July 27-29—**Idaho Medical Association—Annual Meeting.** Sun Valley. Thurs-Sun. Contact: Idaho Medical Assn, 305 W Jefferson, PO Box 2668, Boise 83701.

August 7-8—**Northwest Regional Perinatal Conference—Current Issues in OB/GYN, Neonatology and Pediatrics.** Inland Empire Perinatal Center at Coeur d'Alene Resort. Mon-Tues. Contact: Inland Empire Perinatal Center, 411 Medical Center Bldg, Spokane, WA 99204. (509) 624-3182.

NEW MEXICO

Information, requests for accreditation and items to be listed should be sent to the chairman of the CME Committee, New Mexico Medical Society, 303 San Mateo NE, Suite 204, Albuquerque, NM 87108 at least two months in advance. For information on CME accreditation or on the CME requirements of the New Mexico Board of Medical Examiners, please write to the above address or call (505) 266-7868.

NOTE: Course information in the following listing is subject to change on occasion. Check with the sponsoring institution for current details.

June 2-3—**University of New Mexico Department of Orthopaedics Alumni Meeting.** Nursing/Pharmacy Auditorium, University of New Mexico, Albuquerque. Contact: UNM Department of Orthopaedics, (505) 277-4701.

June 15-16—**9th Annual University of New Mexico/American College of Emergency Physicians Emergency Medicine Symposium.** Sheraton Old Town, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, (505) 277-3942.

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CONTINUING MEDICAL EDUCATION

(Continued from Page 532)

June 23-24—**Certification Update for Radiographers.** University of New Mexico Conference Center, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, (505) 277-3942.

July 20-22—**General Surgical Postgraduate Course.** Hilton Hotel, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, (505) 277-3942.

July 17-20—**Ruidoso Family Practice Seminar.** Inn of the Mountain Gods, Ruidoso. Contact: Anne Woodrow, NM Chapter, American Academy of Family Physicians, PO Box 23070, Albuquerque 87192. (505) 298-5300.

September 7-9—**Concepts and Controversies in Perinatal Care.** Clarion Four Seasons, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, (505) 277-3942.

September 9-10—**First American Cancer Society Interdisciplinary Cancer Conference.** Bishop's Lodge, Santa Fe. Contact: Stephanie Gooch, American Cancer Society, NM Chapter, 5800 Lomas NE, Albuquerque 87110. (505) 262-2336.

September 15-16—**Essentials of Health Care for the Elderly.** University of New Mexico Conference Center, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, (505) 277-3942.

September 15-16—**New Mexico Chapter, American College of Surgeons—Scientific Meeting.** Hilton Hotel, Albuquerque. Contact: NM Chapter, ACS, 303 San Mateo NE, #204, Albuquerque 87108. (505) 266-7868.

September 22-23—**Southwestern Psychiatric Symposium on Schizophrenia and Depression.** Sheraton Old Town, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, (505) 277-3942.

October 12-14—**Management of Radiation Accidents.** Sheraton Old Town, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, (505) 277-3942.

December 1-2—**Trauma Update '89.** Clarion Four Seasons, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, Albuquerque 87131. (505) 277-3942.

December 7-9—**American College of Physicians, New Mexico Scientific Meeting.** Hilton Hotel, Albuquerque. Contact: University of New Mexico School of Medicine, Office of CME, Albuquerque 87131. (505) 277-3942.

UTAH

This listing of continuing medical education courses in Utah is compiled and edited by the CME office of the Utah Medical Association. All courses listed have been certified by CME accredited institutions as meeting the criteria for Category 1 of the Physician's Recognition Award of the American Medical Association. They also must meet the definition of Utah Approved CME Credit for the purpose of medical license reregistration in Utah. Accredited institutions wishing to list AMA Category 1/Utah Approved CME courses here should send information at least two months in advance to the Office of Continuing Medical Education, 540 East Fifth South, Salt Lake City, Utah 84102; or phone (801) 355-5290. For information on CME accreditation or on the CME requirements of the Utah Physicians' Licensing Board, please write the CME office at the above address.

NOTE: Course information in the following listing is subject to change on occasion. Check with the sponsoring institution or the CME office for current details.

MEDICAL GRAND ROUNDS

Each Wed—8:00-9:00 a.m. Alternating between University of Utah Medical Center and VA Medical Center, Salt Lake City. Contact: William D. Odell, MD, PhD, Professor and Chairman, Dept of Internal Medicine, Univ of Utah, (801) 581-7606.

* * *

June 8-10—**13th Annual Spring Medical Symposium** (Sponsor: CH). Thurs-Sat. Radison Inn, Price. Contact: Max Morgan, MD, (801) 637-4800, ext 203.

June 18-23—**School on Alcoholism and Other Drug Dependencies** (Sponsor: UUMC). Sun-Fri. University of Utah, Salt Lake City. Contact: (801) 538-3956.

July 12-14—**Common Problems in Pediatrics** (Sponsor: UUMC). Wed-Fri. Salt Lake City. Contact: Barbara Saffel, (801) 466-3500.

July 17—**Seventh Annual Update in Clinical Microbiology and Immunology** (Sponsor: UUMC). Mon. Jackson Hole, Wyoming. Contact: Midge Beckman, (801) 581-7480.

July 20—**Laser Surgery: Angioplasty** (Sponsor: UUMC). Thurs. University of Utah Health Science Center, Salt Lake City. Contact: Mike Johnson, (801) 581-3293.

September 28-29—**Laser Surgery: General Surgery ND: YAG, CO** (Sponsor: UUMC). Thurs-Fri. University of Utah Health Science Center, Salt Lake City. Contact: Mike Johnson, (801) 581-3293.

October 12-13—**Laser Surgery: Gastroenterology ND: YAG** (Sponsor: UUMC). Thurs-Fri. University of Utah Health Science Center, Salt Lake City. Contact: Mike Johnson, (801) 581-3293.

SPONSORS OF COURSES—ABBREVIATIONS

- AHA: American Heart Association, Utah Affiliate, 645 E 400 South, Salt Lake City 84102. (801) 322-5601.
- BYUHS: Brigham Young University Health Services, McDonald Student Health Center, Brigham Young University, Provo 84602. (801) 378-2771.
- CH: Castleview Hospital (formerly Carbon Hospital), RFD 2, Box 46, Price 84501. (801) 637-4800.
- CWH: Cottonwood Hospital, 5770 S 300 East, Salt Lake City 84101. (801) 262-3461.
- DMC: Dixie Medical Center, 544 S 400 East, St George 84770. (801) 673-9681.
- HCH: Holy Cross Hospital, 1045 E First South, Salt Lake City 84102. (801) 350-4744.
- ITS: Intermountain Thoracic Society, 1616 S 11th East, Salt Lake City 84105. (801) 484-4456.
- LDSH: LDS Hospital, 8th Ave and "C" St, Salt Lake City 84143. (801) 321-1100.
- LRH: Logan Regional Hospital, 1400 N 5th East, Logan 84321. (801) 752-2050.
- MDH: McKay-Dee Hospital Center, 3939 Harrison Blvd, Ogden 84409. (801) 399-4141.
- MVH: Mountain View Hospital, 1000 E Highway 6, Payson 84651. (801) 465-9201.
- 144: 144th Evacuation Hospital, PO Box 8000, Salt Lake City 84108. (801) 524-3924.
- OSS: Ogden Surgical Society, PO Box 9311, Ogden 84409.
- PCMC: Primary Children's Medical Center, 320 12th Ave, Salt Lake City 84103. (801) 363-1221.
- PVH: Pioneer Valley Hospital, 3460 S 4155 West, West Valley City 84120. (801) 968-9061.
- SMH: St Mark's Hospital, 1200 E 3900 South, Salt Lake City 84117. (801) 268-7111.
- UOS: Utah Ophthalmological Society, 540 E 500 South, Salt Lake City 84102. (801) 355-7477.
- USH: Utah State Hospital, PO Box 270, Provo 84603-0270. (801) 373-4400.
- UUMC: University of Utah Medical Center, 50 N Medical Dr, Salt Lake City 84132. (801) 581-2258.
- UVRMC: Utah Valley Regional Medical Center, 1034 N Fifth West, Provo 84604. (801) 373-7850.
- VAMC: Veterans Administration Medical Center, 500 Foothill Dr, Salt Lake City 84148. (801) 582-1565.
- VVMC: Valley View Medical Center, 595 S 75 East, Cedar City 84720. (801) 586-6587.

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CONTINUING MEDICAL EDUCATION

(Continued from Page 540)

WASHINGTON

This listing of continuing medical education programs in Washington state is compiled by the Washington State Medical Association. To list Category 1 programs here please send information at least two months in advance to Continuing Medical Education, Washington State Medical Association, 2033 Sixth Avenue, Suite 900, Seattle, WA 98121; or phone (206) 441-WSMA.

Brochures and registration forms are available from the contact person or organization listed at the end of each course or in the list of course sponsors and contact information.

May 15-17—Occupational Hazards to Health Care Workers. Seattle. Mon-Wed. Contact: U/W, (206) 543-1069.

May 17—Neurology. Tacoma. Wed. Contact: (206) 627-7137.

May 18-19—Alzheimers Update. Seattle. Thurs-Fri. Contact: U/W.

May 20—AIDS Education. Everett. Sat. Contact: U/W (206) 543-3910.

June 1-2—Nicotine Addiction. Seattle. Thurs-Fri. Contact: U/W.

June 1-2—Practical Management of Drug, Alcohol, and Tobacco Abuse Problems Within the Primary Care Population. Seattle. Thurs-Fri. Contact: U/W.

June 1-3—International Symposium on Pediatric NeuroOncology. Seattle. Thurs-Sat. Contact: U/W.

June 2—Current Otolaryngology. Seattle. Fri. Contact: VMMC.

June 8-10—Burn Update. Seattle. Thurs-Sat. Contact: U/W.

June 9—Ortho Trauma Update. Spokane. Fri. Contact: U/W.

June 16-18—Pediatrics Update. Oregon. Fri-Sun. Contact: U/W.

June 26-27—Advanced Cardiac Life Support. Tacoma. Mon-Tues. Contact: (206) 627-7137.

June 28-30—Comparative Implants for Orthopaedics. Seattle. Wed-Fri. Contact: U/W.

July 10-12—The Best Approach 1989: Sports Medicine. Seattle. Mon-Wed. Contact: (206) 326-7349.

August 7-12—Medical Ethics. Seattle. Mon-Sat. Contact: U/W.

September 11-15—Family Practice Review. Seattle. Mon-Fri. Contact: U/W.

COURSE SPONSORS AND CONTACT INFORMATION

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U/W (UNIVERSITY OF WASHINGTON)—Contact: U/W School of Medicine, Div. of CME, SC-50, Seattle, WA 98195. (206) 543-1050.

WSMA—Washington State Medical Association, Continuing Medical Education, 2033 Sixth Ave, Suite 900, Seattle, WA 98121. (206) 441-9762.

VMMC (VIRGINIA MASON MEDICAL CENTER)—Contact: Linda Orgel, Division of Continuing Medical Education, Virginia Mason Medical Center, PO Box 900, Seattle, WA 98111. (206) 223-6898.

WYOMING

June 8-10—Wyoming Medical Society—Annual Meeting. Teton Lodge, Jackson. Thurs-Sat. Contact: Wyoming Medical Society, PO Drawer 4009, Cheyenne 82003-4009.

July 17—Seventh Annual Update in Clinical Microbiology and Immunology. University of Utah Medical Center at Jackson Hole. Contact: Midge Beckman, (801) 581-7480. ♦

DYAZIDE®

25 mg. Hydrochlorothiazide/50 mg. Triamterene/SKF

Before prescribing, see complete prescribing information in SK&F CO. literature or PDR. The following is a brief summary.

Indications and Usage: Hypertension or edema in patients who develop hypokalemia on hydrochlorothiazide alone; in patients who require a thiazide diuretic and in whom the development of hypokalemia cannot be risked.

This fixed combination drug is not indicated for the initial therapy of edema or hypertension except in individuals in whom the development of hypokalemia cannot be risked.

'Dyazide' may be used alone or as an adjunct to other antihypertensive drugs; dosage adjustments may be necessary.

Contraindications: Concomitant use with other potassium-sparing agents such as spironolactone or amiloride; potassium supplements (except in presence of severe hypokalemia); anuria, acute and chronic renal insufficiencies or significant renal impairment; hypersensitivity to drug or other sulfonamide-derived drugs; preexisting elevated serum potassium concentration.

Warnings: Abnormal elevation of serum potassium levels (greater than or equal to 5.5 mEq/liter) can occur with all potassium-conserving diuretic combinations, including 'Dyazide'. Hyperkalemia is more likely to occur in patients with renal impairment, diabetes (even without evidence of renal impairment), elderly or severely ill patients. Since uncorrected hyperkalemia may be fatal, serum potassium levels must be monitored at frequent intervals especially in patients first receiving 'Dyazide'; when dosages are changed or with any illness that may influence renal function.

If hyperkalemia is suspected, obtain an ECG and monitor serum potassium. If hyperkalemia develops, discontinue 'Dyazide' and initiate thiazide therapy if needed. Persistent hyperkalemia may require dialysis. Monitor serum electrolytes frequently in patients with mild renal dysfunction and in diabetic patients. In patients who may develop respiratory or metabolic acidosis, monitor serum electrolytes and acid/base balance frequently.

Precautions: The bioavailability of the hydrochlorothiazide and triamterene components of 'Dyazide' is about 50% of the maximum obtainable with oral therapy. Theoretically, a patient transferred from therapy with hydrochlorothiazide with or without triamterene might show an increase in blood pressure, fluid retention, or change in serum potassium. Extensive clinical experience with 'Dyazide', however, suggests that these conditions have not been commonly observed in clinical practice. (See CLINICAL PHARMACOLOGY.) Use thiazides cautiously in patients with impaired hepatic function. They can precipitate coma in patients with severe liver disease; potassium depletion induced by the thiazide may be important in this connection; administer 'Dyazide' cautiously and be alert for such early signs of impending coma as confusion, drowsiness and tremor; if mental confusion increases, discontinue 'Dyazide' for a few days; attention must be given to other factors that may precipitate hepatic coma, such as blood in the gastrointestinal tract or preexisting potassium depletion. If patients develop hypokalemia, which is uncommon with 'Dyazide', increase potassium intake (i.e., with supplements or potassium-rich foods). If repeat determinations show serum potassium concentrations below 3.0 mEq/L, discontinue 'Dyazide' and initiate potassium chloride supplementation. Institute corrective measures cautiously and monitor serum potassium concentrations frequently, especially in patients receiving digitalis or those with a history of cardiac arrhythmias. Diuretics may aggravate existing electrolyte imbalances, especially at high dosages or in patients on salt-restricted diets. Do periodic serum electrolyte determinations (particularly important in patients vomiting excessively or receiving parenteral fluids). Chloride replacement may be required in the treatment of metabolic acidosis. If dilutional hyponatremia develops, restrict water intake. In actual salt depletion, initiate sodium chloride replacement. Use 'Dyazide' cautiously in patients with a history of renal stone formation.

If hyperkalemia develops when treating for hypokalemia, take corrective measures. Also discontinue 'Dyazide' and, if appropriate, substitute a thiazide diuretic until potassium levels return to normal. Do periodic BUN and serum creatinine determinations, especially in the elderly and in patients with suspected or confirmed renal insufficiency. Serum PBI levels may decrease without signs of thyroid disturbance. Discontinue thiazides before conducting parathyroid function tests.

Angiotensin-converting enzyme (ACE) inhibitors can elevate serum potassium; use with caution with 'Dyazide'. Concurrent use with chlorpropamide may increase the risk of severe hyponatremia. A few occurrences of acute renal failure have been reported in patients on 'Dyazide' when treated with indomethacin. Therefore, caution is advised in administering nonsteroidal anti-inflammatory agents with 'Dyazide'. Diuretics reduce renal clearance of lithium and increase the risk of lithium toxicity. Clinically insignificant reductions in arterial responsiveness to norepinephrine have been reported. Thiazides have also been shown to increase the paralyzing effect of nondepolarizing muscle relaxants such as tubocurarine; therefore use cautiously in patients undergoing surgery. Monitor electrolytes in patients taking amphotericin B, corticosteroids or corticotropin concomitantly. Thiazides may potentiate the action of other antihypertensive drugs. The effects of oral anticoagulants may be decreased when used concurrently with hydrochlorothiazide; dosage adjustments may be needed. 'Dyazide' may raise the level of blood uric acid; dosage adjustments of antigout medication may be needed to control hyperuricemia and gout. The following agents given with triamterene may promote serum potassium accumulation and possibly result in hyperkalemia, especially in patients with renal insufficiency: blood from blood bank (may contain up to 30 mEq of potassium per liter of plasma or up to 65 mEq of potassium per liter of whole blood when stored for more than 10 days); low-salt milk (may contain up to 60 mEq of potassium per liter); potassium-containing medications (such as parenteral penicillin G potassium), and salt substitutes (most contain substantial amounts of potassium). Exchange resins, such as sodium polystyrene sulfonate, whether administered orally or rectally, reduce serum potassium concentrations by sodium replacement of the potassium; fluid retention may occur in some patients because of the increased sodium intake. Chronic or overuse of laxatives may reduce serum potassium concentrations by promoting excessive potassium loss from the intestinal tract; laxatives may interfere with the potassium-retaining effects of triamterene. The effectiveness of methenamine may be decreased when used concurrently with hydrochlorothiazide because of alkalinization of the urine. 'Dyazide' will interfere with the fluorescent measurement of quinidine.

There are no adequate and well-controlled studies in pregnant women. This drug should be used during pregnancy only if clearly needed. Thiazides and triamterene cross the placental barrier and appear in cord blood. The use of thiazides in pregnancy requires weighing the anticipated benefit against possible hazards, including fetal or neonatal jaundice, pancreatitis, thrombocytopenia, and possibly other adverse reactions which have occurred in the adult. Thiazides appear, and triamterene may appear, in breast milk. If use of the drug is essential, the patient should stop nursing. Safety and effectiveness in children have not been established.

Adverse Reactions: The serious adverse effects associated with 'Dyazide' have commonly occurred in less than 0.1% of patients treated with this product. Anaphylaxis, rash, urticaria, photosensitivity, cardiac arrhythmias, postural hypotension, diabetes mellitus, hyperkalemia, hyperglycemia, glycosuria, hyperuricemia, hypokalemia, hyponatremia, acidosis, hypochloremia, jaundice and/or liver enzyme abnormalities, pancreatitis, nausea and vomiting, diarrhea, constipation, abdominal pain, acute renal failure, interstitial nephritis, renal stones composed primarily of triamterene, elevated BUN and serum creatinine, abnormal urinary sediment, leukopenia, thrombocytopenia and purpura, megaloblastic anemia, muscle cramps, weakness, fatigue, dizziness, headache, dry mouth, impotence, sialadenitis. Thiazides alone have been shown to cause the following additional adverse reactions: paresthesias, vertigo, xanthopsia, transient blurred vision, allergic pneumonitis, pulmonary edema, respiratory distress, necrotizing vasculitis, exacerbation of lupus, aplastic anemia, agranulocytosis, hemolytic anemia. In neonates and infants: thrombocytopenia and pancreatitis—rarely, in newborns whose mothers have received thiazides during pregnancy.

Supplied: Capsules containing 25 mg. hydrochlorothiazide and 50 mg. triamterene, in bottles of 1000 capsules; in Single Unit Packages (unit-dose) of 100 (intended for institutional use only); in Patient-Pak™ unit-of-use bottles of 100.

BRS-DZ-L58

* Ad Hoc Committee on Cardiovascular/Pulmonary Disease Risk Factors in Minority Populations: 1986 Forum on Cardiovascular Disease Risk Factors in Minority Populations. Bethesda, Maryland. U.S. Department of Health and Human Services, 1986.

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Arizona Medical Association, Inc—810 W Bethany Home Rd, Phoenix 85013. (602) 246-8901. Annual Meeting: June 1-3, 1989, Pointe at South Mountain, Phoenix.

California Medical Association—PO Box 7690, San Francisco 94120-7690. (415) 541-0900. Annual Meeting: March 2-7, 1990, Disneyland Hotel, Anaheim.

Colorado Medical Society—PO Box 17550, Denver 80217-0550. (303) 779-5455. Annual Meeting: September 14-17, 1989, Westin Hotel, Vail.

Hawaii Medical Association—1360 S Beretania, Honolulu 96814. (808) 536-7702. Annual Meeting: November 10-12, 1989, Westin Hotel, Maui.

Idaho Medical Association—305 W Jefferson, PO Box 2668, Boise 83701. (208) 344-7888. Annual Meeting: July 27-29, 1989, Sun Valley.

Montana Medical Association—2012 11th Ave, Suite 12, Helena 59601. (406) 443-4000. Annual Meeting: October 5-7, 1989, Missoula.

Nevada State Medical Association—3660 Baker Lane, Reno 89502. (702) 825-6788. Annual Meeting: June 1-4, 1989, Ely.

New Mexico Medical Society—303 San Mateo NE, Suite 204, Albuquerque 87108. (505) 266-7868. Annual Meeting: May 11-13, 1989, Holiday Inn Pyramid, Albuquerque.

Oregon Medical Association—5210 SW Corbett Ave, Portland 97201. (503) 226-1555. Annual Meeting (House of Delegates only): 1990, date and location to be announced.

Utah Medical Association—540 E Fifth South, Salt Lake City 84102. (801) 355-7477. Annual Meeting: September 13-15, 1989, University Park Hotel, Salt Lake City.

Washington State Medical Association—900 United Airlines Bldg, 2033 6th Ave, Seattle 98121. (206) 441-WSMA. Annual Meeting: September 28-October 1, 1989, SEATAC Red Lion, Seattle.

Wyoming Medical Society—PO Drawer 4009, Cheyenne 82003-4009. (307) 635-2424. Annual Meeting: June 8-10, 1989, Teton Lodge, Jackson.

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